4. Earthquakes

Program Name: Earthquakes.java Input File: earthquakes.dat

There are many earthquakes that rock the world in a given year. The Richter scale is used to determine the magnitude of an earthquake and is a base ten logarithmic scale found by calculating the logarithm of the amplitude of the waves as measured by a seismograph. The magnitude of an earthquake can range from 0 to 10, or possibly higher. Since the scale is logarithmic, an earthquake that measures 7.0 on the Richter scale is 10 times more powerful that an earthquake that measures 6.0. The Anchorage, Alaska, earthquake of 1964 measured 9.2 while the Japanese earthquake of 2011 measured 9.0. Both are considered to be "great" earthquakes.

You are to write a program that will determine the most common magnitude of the earthquakes that happened in a given year.

Input

The first line of input will contain a single integer `n` that indicates the number of years to follow. Each of the following `n` lines will contain a list of earthquake magnitudes in the range [0.0 ... 10.0] and rounded to tenths that occurred in a given year. Each of the items in a line will be separated by a space.

Output

For each year, you will print, on a single line, the most common magnitude of the earthquakes that happened that year.

Note: For each year, there will be exactly one magnitude that happened the most times.

Example Input File

```
3
2.6 5.3 7.2 7.4 7.2 7.0 7.2 7.0 6.4
6.8 7.2 6.4 6.8 7.5 6.8 7.6 7.5 6.8 7.5 7.6 7.3
6.8 6.9 6.9 8.0 7.9 6.7 7.6 6.8 7.0 7.6 7.4 6.9 6.4 6.9
```

Example Output to Screen

```
7.2
6.8
6.9
```